

DEVAL L. PATRICK GOVERNOR **TIMOTHY P. MURRAY** LIEUTENANT GOVERNOR JUDYANN BIGBY, MD SECRETARY JOHN AUERBACH COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services Department of Public Health William A. Hinton State Laboratory Institute 305 South Street, Jamaica Plain, MA 02130

04/08/2011

Christina Corda Assistant District Attorney, Suffolk County

Dear ADA Corda,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:

- 1. Drug Analysis Laboratory Receipt.
- 2. Curriculum Vitae for Annie Dookhan Kate Corbett & Della Saunders.
- 3. Control Cards with analytical results for samples #
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett and Della Saunders was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Annie Khan (Dookhan)

Chemist II

Sincerely

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6631

Annie.Khan@state.ma.us



CC #	
BOOK #	
PAGE #	

DRUG RECEIPT	PAGE # DESTRUCTION #				
5.0 1000	DES	TRUCTION #			
District/Unit $E \cdot S / DCU$ Name & Rank of Arresting Officer $P \cdot C$.	S SM +	DETTOLA			
Name & Rank of Arresting Officer	0070	JOERN T	10# _ 7731		
DEFENDANT'S NAME	ADD	RESS	CITY	STATE	
			LABUS	E ONLY	
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BPD Form 0038-BIS-0907 (prev. 1753)

Received by ____

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ECU Control #

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BPD Form 0038-BIS-0907 (prev. 1753)

S-12-31

ECU Control #

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Responsible for the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

OC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, OC and OA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003 MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- > Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 - August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

Curriculum Vitae

Della Saunders

Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

Experience:

1985-present: Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

1984-1985: Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

Training:

1985: Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

1987: One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

1992: Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

1996: Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

2001: Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

2002: Techniques of Supervision Training (MDPH)

1999: Notary Public Commonwealth of Massachusetts

No.

Date Analyzed: AUG 2 0 2010

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def:

Amount:

Subst: SUB

No. Cont:

9

Cont: pb

Date Rec'd: 07/01/2010

Gross Wt.:

11.37

No. Analyzed: \

Net Weight: 〇- 与つ

Tests: 6 ASD

40 f

Prelim: Cocacae

Findings: ((()))

No.

Date Analyzed:

City: Boston D.C.U. Police Dept.

08-10-10

Officer: P.O. SYBIL WHITE

Def:

. -

Amount: No. Cont:

Cont: pb

Date Rec'd: 07/01/2010

No. Analyzed:

Gross Wt.:

852.72

Net Weight:

Tests: 24,950

Subst: SUB

Prelim:

Findings: Decetive

Officer: P.O. SYBIL WHITE
Def:
Amount:
No. Cont: 3 Cont: pb

Date Rec'd: 07/01/2010 No. Analyzed: \

Gross Wt.: 3.63 Net Weight: O・6い

27 V M Z

Prelim: Hocaire Findings: () ()

DRUG POWDER ANALYSIS FORM

SAMPLE# AGEN	icy Bosam	ANALYST 059
No. of samples tested:	•	Vidence Wt.
PHYSICAL DESCRIPTION:	Gros	s Wt (9): 7.6824
while powdred	Anta 2 1. 1 E	s Wt (1): 0.7864
17 9 0	20	Pkg. Wt:
donpropal	ge Q	Net Wt: <u>0.6750</u>
PRELIMINARY TESTS Spot Tests	Microon	/stalline Tests
Cobalt Thiocyanate (ナ)	Gold Chloride	+
Marquis	TLTA <u>(-</u>	-
Froehde's	HTO	ER TESTS
	, physical pro-	
PRELIMINARY TEST RESULTS	GC/MS CON	FIRMATORY TEST
RESULTS COCCURD	RESULTS	cocane
DATE 7-26-10	MS OPERATOR	000
	DATE	8-20-in

Revised 7/2005

DRUG POWDER ANALYSIS FORM

SAMPLE#	GENCY BOSTO. ANALYST ADD
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt (リ):_8リス・2_
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, , , ,	CL POSS Pkg. Wti
	Net Wt:
	•
·	
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt	Gold
Thiocyanate (-) -	Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	466-
•	
PRELIMINARY TEST RESULTS	GCIMS CONFIRMATORY TEST
RESULTS Nexture	RESULTS
DATE 7-26-10	MS OPERATOR
	DATE OS-10-10

Revised 7/2005

samples tested:

#	Gross Welght	Packet Weight	Net Welght	*	Gross Welght	Packet Weight	Net Welght
1	404.8		403.T	26			
2	203,9		2025	27			
3	133.1		131-9	28			
4	10.2.1		100.8	29			,
5			***************************************	30			
6				31			
7_	- water management with		~~~	32	4		
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9			# 	34			
10				35			
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Calculations:

Netw+ = 839.3

DRUG POWDER ANALYSIS FORM

SAMPLE #	AGENCY 508	ANAL!	(ST 44.2)
No. of samples tested:	-	Evidence \	VL
PHYSICAL DESCRIPTION:		Gross WI (31: 2.2960
white pand	red + chuni	Gross Wt (1: 0,7702
	2098	the same of	Wt:
dow	sle war Wa Q	Net	Wt: 0.6439
		•	
•			
PRELIMINARY TESTS Spot Tests		<u>Microcrystalline</u>	<u> Tests</u>
Cobalt Thlocyanate <u>(</u> +)		Gold Chloride <u>+-</u>	
Marquis	•	TLTA <u>(+) </u>	
Froehde's		OTHER TES	<u>rs</u>
Mecke's	-		

PRELIMINARY TEST RESULTS		GCIMS CONFIRMAT	ORY TEST
RESULTS coccue	•	RESULTS (OCC	1101
DATE 09-24-12		MS OPERATOR <u>ICA</u>	
		DATE 9-2	7-10

Revised 7/2005

File Name : F:\Q3-2010\System7\08 19 10\738128.D

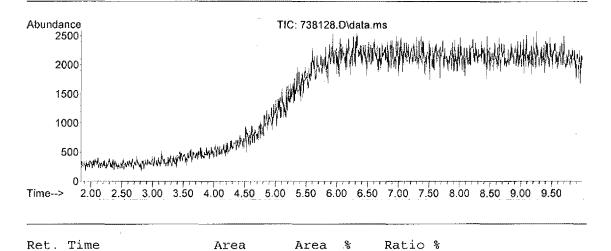
Operator : DCS

Date Acquired : 19 Aug 2010 16:21

Sample Name : BLANK

Submitted by

Vial Number : 1 AcquisitionMeth: DRUGS.M Integrator : RTE



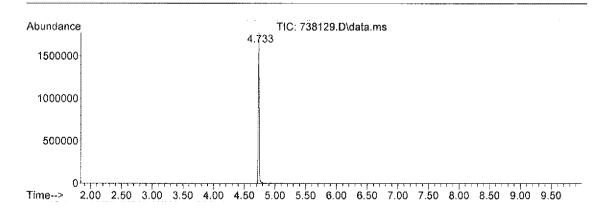
File Name : $F:\Q3-2010\System7\08_19_10\738129.D$

Operator : DCS

Date Acquired : 19 Aug 2010 16:34 Sample Name : COCAINE STANDARD

Submitted by

Vial Number : 29 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time		Area %	Ratio %
4.733	1660942		

File Name : F:\Q3-2010\System7\08 19 10\738129.D

Operator : DCS

Date Acquired : 19 Aug 2010 16:34 Sample Name : COCAINE STANDARD

Submitted by

RT

PK#

Vial Number : 29 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

Library/ID

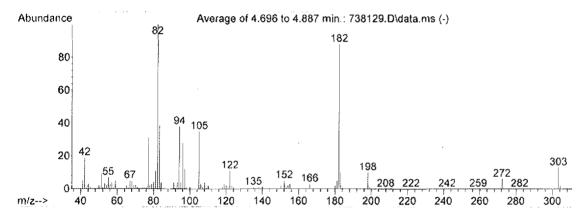
\Database\SLI.L Minimum Quality: 85 \Database\PMW_TOX2.L Minimum Quality: 85

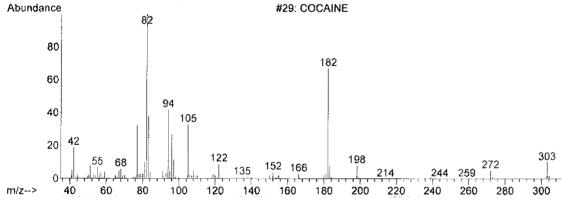
CAS#

Qual

C:\Database\PMW_TOX2.L
C:\Database\NIST05a.L

1 4.73 C:\Database\SLI.L COCAINE 000050-36-2 99



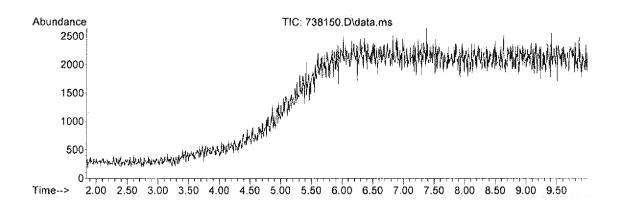


File Name : F:\Q3-2010\System7\08 19 10\738150.D

Operator : DCS

Date Acquired : 19 Aug 2010 20:59

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time

Area

Area %

Ratio %

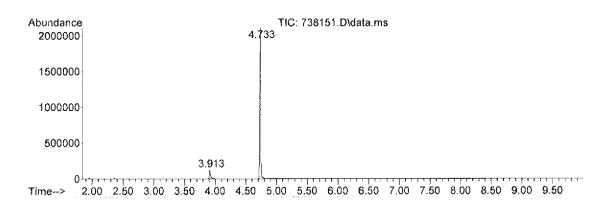
File Name : F:\Q3-2010\System7\08_19_10\738151.D

Operator : DCS

Date Acquired : 19 Aug 2010 21:11

Sample Name :

Submitted by : ASD
Vial Number : 51
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.913		8.54	9.34
4.733		91.46	100.00

File Name : F:\Q3-2010\System7\08 19 10\738151.D

Operator : DCS

Date Acquired : 19 Aug 2010 21:11

Sample Name :

Submitted by : ASD
Vial Number : 51
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 85

C:\Database\PMW_TOX2.L

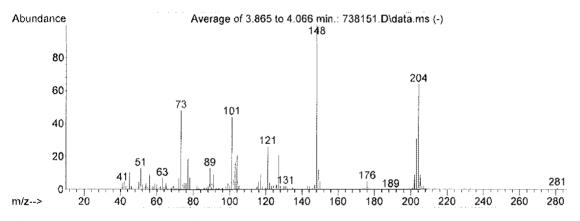
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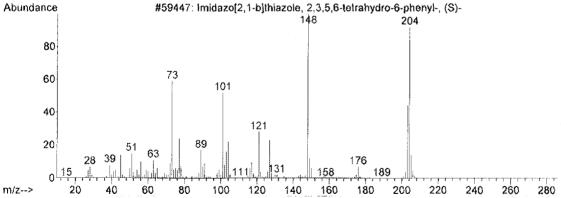
97

C:\Database\NIST05a.L

PK#	RT	Library/ID		CAS#	Qual
1	3.91	C:\Database\NIST05a.L			- 11-11-2011 - C-100E-00
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	014769-73-4	98
		Imidago[2 1.hlthiago]o	2 2 5 6-tot	006649-22-6	0.0

Imidazo[2,1-b]thiazole, 2,3,5,6-tet 006649-23-6





File Name : F:\Q3-2010\System7\08_19_10\738151.D

Operator : DCS

Date Acquired : 19 Aug 2010 21:11

Sample Name : Submitted by :

: ASD : 51

Vial Number : 51 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database

C:\Database\SLI.L Minimum Quality: 85

C:\Database\PMW TOX2.L

L Minimum Quality: 85

C:\Database\NIST05a.L

PK# RT Library/ID

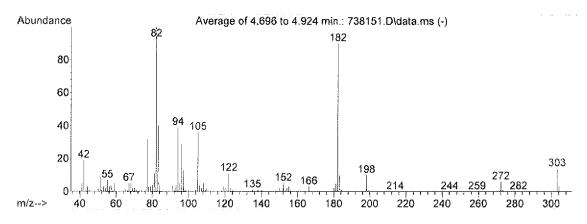
CAS# Qual

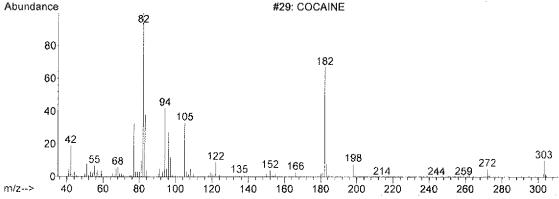
2 4.73 C:\Database\SLI.L

COCAINE

000050-36-2

99





File Name : F:\Q3-2010\System7\08_19_10\738152.D

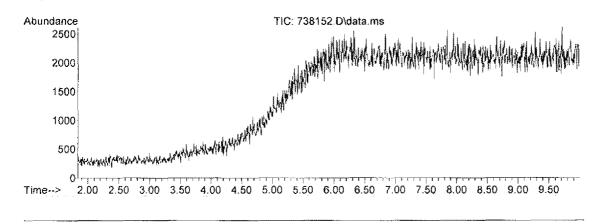
Operator : DCS

Date Acquired : 19 Aug 2010 21:24

Sample Name : BLANK

Submitted by

Vial Number : 2 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time

Area

Area %

Ratio %

File Name : F:\Q3-2010\System7\08_19_10\738153.D

Operator : DCS

Date Acquired : 19 Aug 2010 21:36

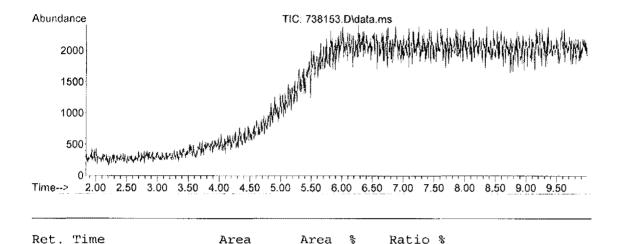
Sample Name : BLANK

Submitted by

Vial Number 2

AcquisitionMeth: DRUGS.M

Integrator : RTE



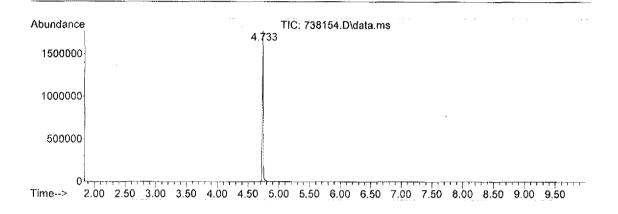
File Name : F:\Q3-2010\System7\08_19_10\738154.D

Operator : DCS

Date Acquired : 19 Aug 2010 21:49 Sample Name : COCAINE STANDARD

Submitted by

Vial Number : 54 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.733	1639135	100.00	100.00

File Name : F:\Q3-2010\System7\08 19 10\738154.D

Operator : DCS

Date Acquired : 19 Aug 2010 21:49 Sample Name : COCAINE STANDARD

Submitted by

Vial Number : 54 AcquisitionMeth: DRUGS.M Integrator : RTE

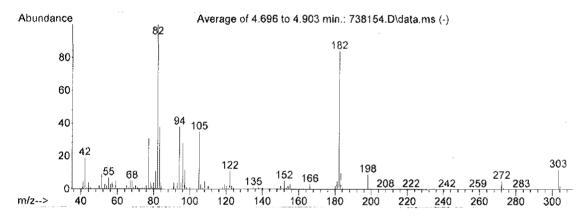
Search Libraries: C:\Database\SLI.L

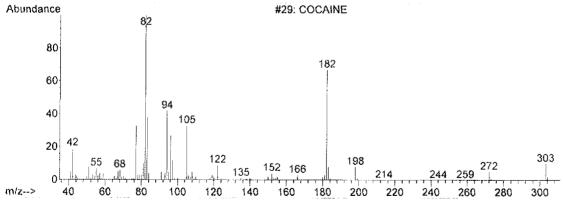
C:\Database\SLI.L Minimum Quality: 85
C:\Database\PMW_TOX2.L Minimum Quality: 85

C:\Database\NIST05a,L

PK# RT Library/ID CAS# Qual

1 4.73 C:\Database\SLI.L COCAINE 000050-36-2 99





Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_24_10\745123.D

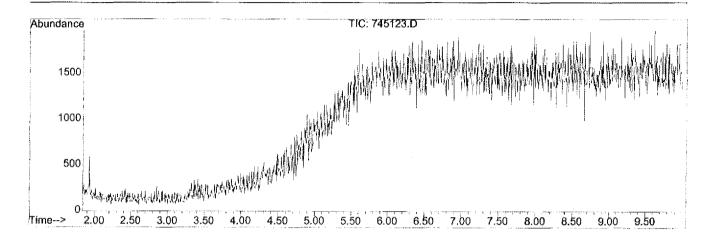
Operator : KAC

Date Acquired : 24 Sep 2010 20:02

Sample Name : BLANK

Submitted by :

Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

^{***}NO INTEGRATED PEAKS***

File Name : $F:\Q3-2010\SYSTEM4\09_24_10\745124.D$

Operator

: KAC

Date Acquired : 24 Sep 2010

20:15

Sample Name

: COCAINE STD

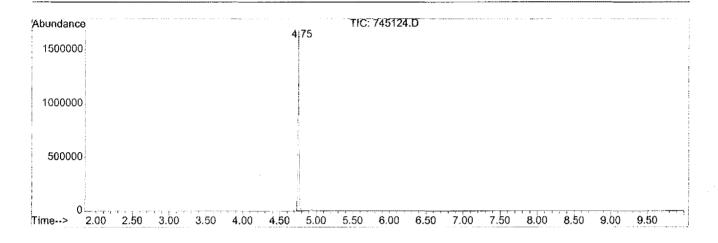
Submitted by

Vial Number AcquisitionMeth: DRUGS

24

Integrator

: RTE



Ret. Time	Area	Area %	Ratio %
4.754	1731697	100.00	100.00

File Name : $F:\Q3-2010\SYSTEM4\09_24_10\745124.D$

Operator : KAC

Date Acquired : 24 Sep 2010 20:15

Sample Name : COCAINE STD

Submitted by :

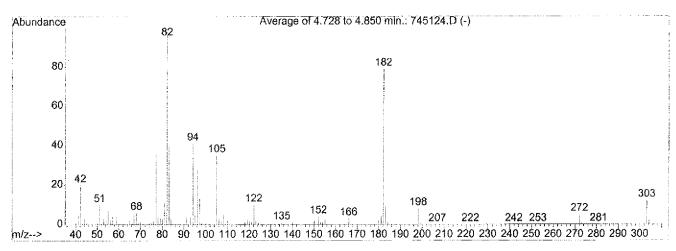
Vial Number : 24 AcquisitionMeth: DRUGS Integrator : RTE

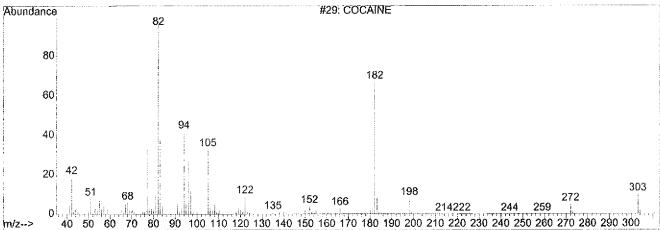
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





745124.D

Fri Apr 08 14:08:27 2011

Page 2

Area Percent / Library Search Report

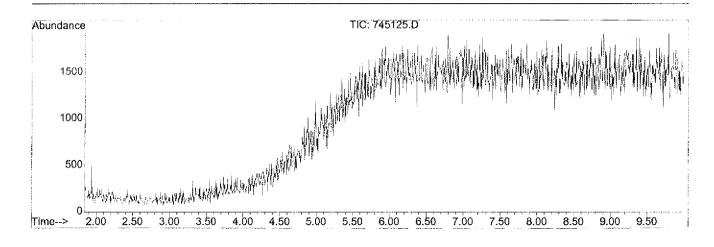
Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_24_10\745125.D

Operator : KAC

Date Acquired : 24 Sep 2010 20:29

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



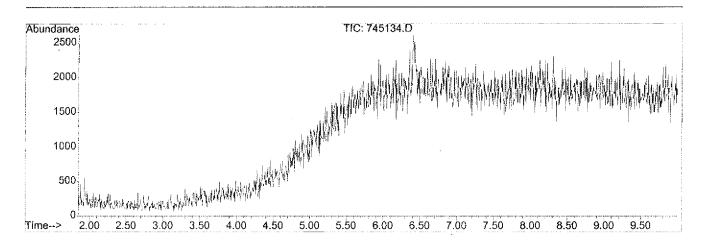
Ret. Time Area Area % Ratio %

File Name : $F:\Q3-2010\SYSTEM4\09_24_10\745134.D$

Operator : KAC

Date Acquired : 24 Sep 2010 22:32

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

Area Percent / Library Search Report

Information from Data File:

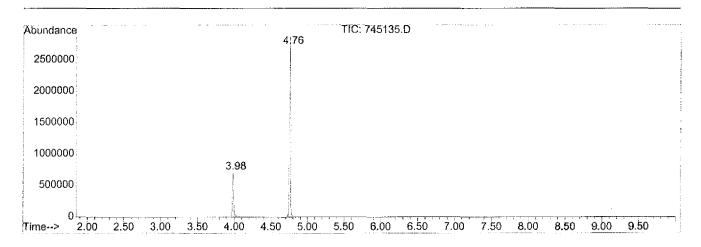
File Name : $F:\Q3-2010\SYSTEM4\09_24_10\745135.D$

Operator : KAC

Date Acquired : 24 Sep 2010 22:45

Sample Name :

Submitted by : ASD
Vial Number : 35
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.978 4.755	784870 3078853	20.31 79.69		

File Name : $F:\Q3-2010\SYSTEM4\09\ 24\ 10\745135.D$

Operator : KAC

Date Acquired : 24 Sep 2010 22:45

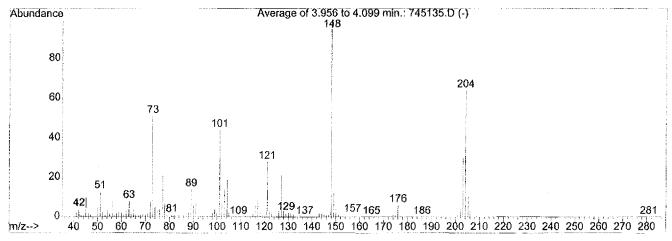
Sample Name : Submitted by : ASD
Vial Number : 35

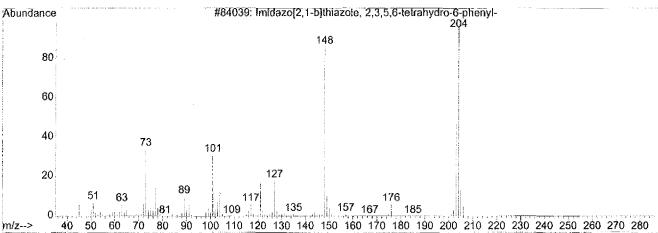
Vial Number : 35
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L





745135.D

Fri Apr 08 14:08:41 2011

Page 2

File Name : $F:\Q3-2010\SYSTEM4\09 24 10\745135.D$

Operator : KAC

Date Acquired : 24 Sep 2010 22:45

Sample Name : Submitted by : A

2

Submitted by : ASD
Vial Number : 35
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK# RT Library/ID

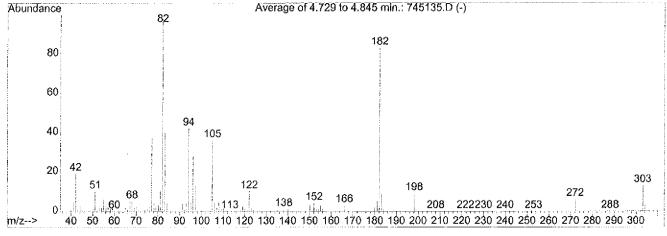
CAS# Qual

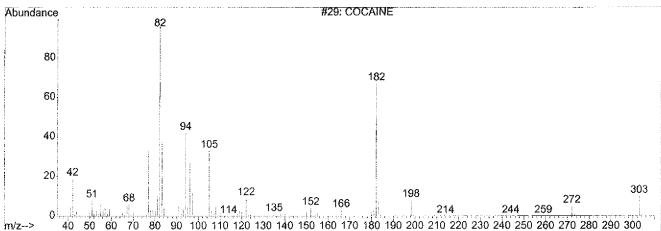
4.76 C:\DATABASE\SLI.L

COCAINE

000050-36-2

99





745135.D

Fri Apr 08 14:08:41 2011

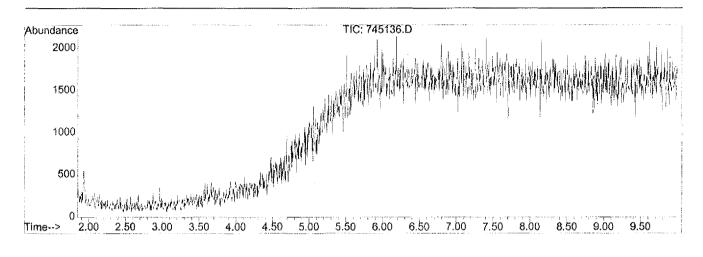
Page 3

File Name : F:\Q3-2010\SYSTEM4\09 24 10\745136.D

Operator : KAC

Date Acquired : 24 Sep 2010 22:59

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

Area Percent / Library Search Report

Information from Data File:

File Name : $F:\Q3-2010\SYSTEM4\09_24_10\745143.D$

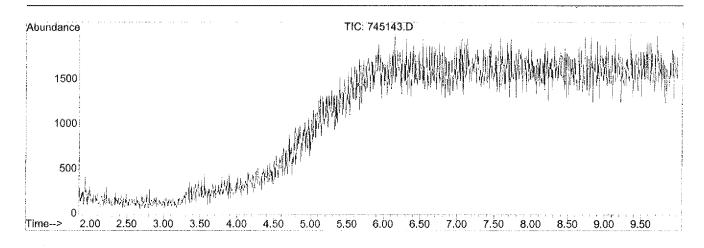
Operator : KAC

Date Acquired : 25 Sep 2010 00:35

Sample Name : BLANK

Submitted by :

Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time

Area

Area

Ratio %

File Name : F:\Q3-2010\SYSTEM4\09 24 10\745144.D

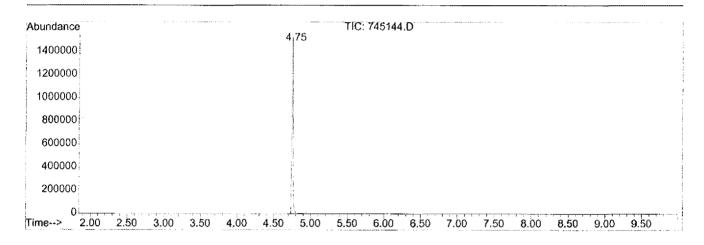
Operator : KAC

Date Acquired : 25 Sep 2010 00:49

Sample Name : COCAINE STD

Submitted by :

Vial Number : 44 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.754	1577440	100.00	100.00

File Name : $F:\Q3-2010\SYSTEM4\09 24 10\745144.D$

Operator : KAC

Date Acquired : 25 Sep 2010 00:49

Sample Name : COCAINE STD

Submitted by :

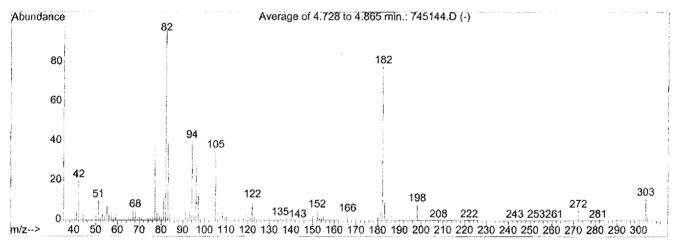
Vial Number : 44 AcquisitionMeth: DRUGS Intégrator : RTE

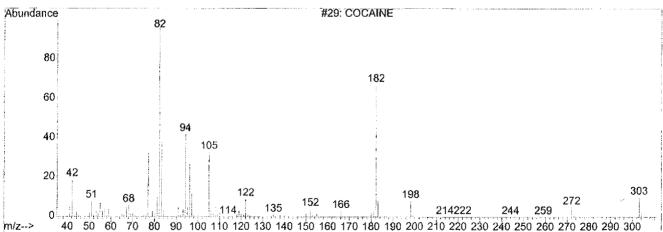
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1.	4.75	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





745144.D

Fri Apr 08 14:08:55 2011

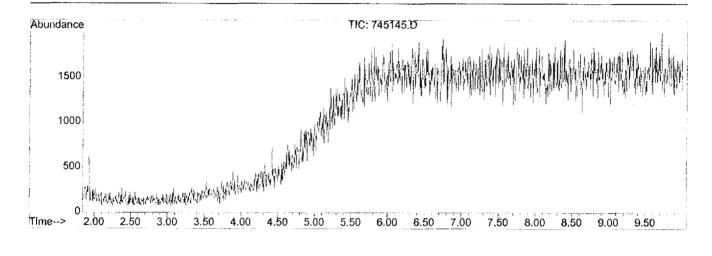
Page 2

File Name : F:\Q3-2010\SYSTEM4\09_24_10\745145.D

Operator : KAC

Date Acquired : 25 Sep 2010 1:03

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %